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**CALTECH GUIDE  
TO  
FELLOWSHIPS & SCHOLARSHIPS  
2022-2023 EDITION**

**– Fellowships Advising and Study Abroad –**

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**California Institute of Technology**  
**Fellowships Advising and Study Abroad**  
**Center for Student Services, 3<sup>rd</sup> Floor, Room 319**  
**(626)396-2150**  
**<http://fasa.caltech.edu>**

May 2022

Dear Junior,

The 2022/23 *Caltech Guide to Fellowships and Scholarships* provides information on major awards for graduate study in the U.S. and abroad. Also included are a few lesser known, but interesting, awards. I have tried to provide you with summary information so that you do not have to wade through fellowship files to determine which awards are of interest to you. You can find a downloadable version of this guide, along with other fellowship information on our website, <http://fasa.caltech.edu>.

**I want to draw your attention to the fact that many fellowships have very early fall deadline dates.** The Marshall, Rhodes, Fulbright, Gates, Mitchell, and Hertz all have early fall deadlines. Please note that with the exception of the Hertz and the Gates, these fellowships require a university endorsement from Caltech. This will require a campus interview to obtain the institute's endorsement for the fellowship. All materials, including your official transcript and references, are due to the Fellowships Advising and Study Abroad office by the campus deadline. It is your responsibility to be sure your reference writers turn in their letters on time.

It takes several weeks to adequately research study options, write high quality application essays and get references. If you are planning a research project, you will need to contact faculty at potential universities, which takes time. The point is, **START ON YOUR FELLOWSHIP RESEARCH BEFORE YOU LEAVE CAMPUS THIS YEAR** and continue to work on your applications during the summer.

I am available to meet with you individually to discuss fellowship options and to review your applications. I strongly encourage you to meet with me before the end of the summer.

Also, Meghan Kuroda, the assistant director of FASA, is the official campus liaison for the Watson Fellowship. Students interested in applying for the Watson would need to make an appointment to meet with her. Meghan also reviews essays for the NSF and NDSEG. Seniors applying for these can bring in printouts of their essays during posted walk in hours, or make an appointment. While we do not proof-read essays, we do review them for content and help you tailor them to the fellowships' requirements.

You can call extension 2150 or email Samantha Skinner at [sskinner@caltech.edu](mailto:sskinner@caltech.edu) to schedule an appointment or come in during posted walk in hours. I also advise students on work and study abroad options.

In our office you will find a collection of books on fellowships, study and work abroad. You will also find copies of the essays of this and recent years' winners of fellowships for your review.

I am very familiar with the pressures confronting seniors as they try to choose a path to take after graduation. Fellowships and graduate study are just one path. However, fellowships are one of the easiest options to investigate early. I would be pleased to help you start the process of exploring fellowship options and their relationship to graduate study.

There will be a meeting on national fellowships for graduate study in the U.S., such as the NSF, Hertz and NDSEG, scheduled in early October.

**Again, I encourage you to begin research the fellowships for graduate study as soon as you can.**

Sincerely,

Lauren Stolper  
Director of Fellowships Advising and Study Abroad

## Table of Contents

<b>Contents</b>	<b>Page Number</b>
Deadlines for Major Fellowships	i
Fellowships by Type	iii
Fellowship Websites	iv
Introduction	1
<b><i>Graduate Fellowships For Research/Study In The U.S.</i></b>	
Department of Defense - NDSEG	3
Department of Defense – SMART Scholarship	3
Department of Energy Fellowships	4
DOE Computational Science Graduate Fellowship	4
Ford Foundation Predoctoral Fellowship	5
GEM Fellowship Program	5
Graduate Fellowships for STEM Diversity GFSD	6
Hertz Fellowships	7
Knight-Hennessy Scholars	8
NASA	8
National Science Foundation GRFP	9
NortonLifeLock (Symantec) Fellowship Program	10
Paul & Daisy Soros Fellowships for New Americans	11
Zonta International Amelia Earhart Fellowship	11
<b><i>Graduate Fellowships For Research/Study</i></b>	
American-Scandinavian Foundation	12
Churchill Scholarship	12
Erasmus Mundus Scholarship	14
Fulbright	14
Fulbright Critical Language Enhancement Grants	15
Fulbright Teaching Assistantship Grants	16
Gates Cambridge Scholarship	17
Generation Google Scholarship	17
Marshall Scholarship	18
George J. Mitchell Scholarship	19
National Institute of Health Oxford/Cambridge Scholars Program	20
Rhodes Scholarship	21
Schwarzman Scholarship	22
Thomas J. Watson Fellowship	23
<b><i>Public Policy/Public Service Fellowships</i></b>	
Capital Fellows Program	24
Herbert Scoville Jr. Peace Fellowship	24
San Francisco Fellows Program	25

<i><b>Science Teaching Fellowships – Teaching in Secondary Schools</b></i>	
Knowles Science Teaching Fellowship	26
NYC Teaching Fellows	26
Robert Noyce Teaching Scholarship	27
Woodrow Wilson Teaching Fellowship	27
<b>Additional Information for all Fellowships</b>	29

# DEADLINES FOR MAJOR FELLOWSHIPS

Updated April 2022

Be sure to check the sponsor’s website for the most current information and accurate deadlines, as this guide is published before many deadlines are posted.

**NOTE WELL:** Dates noted by “est.” have not yet been published and we have estimated the deadline based on previous years’ deadlines. Please use these only as a guide and be sure to check the fellowship’s official website for the most up-to-date deadlines. FASA will provide the most up to date information on deadlines as it is published in the fall.

Name of Fellowship or Scholarship	Campus Deadline	Foundation Deadline
American Scandinavian Foundation		Nov. 1, 2022
Capital Fellows Program		Feb. 7, 2022
Churchill Scholarship	Oct. 15, 2022	Nov. 2, 2022
Kanders Churchill Scholarship	Oct. 1, 2022	Early Oct. 2022
Computational Science Graduate Fellowship-DOE		Jan. 12, 2022
Department of Defense – NDSEG		est. Nov. 18, 2022
Department of Defense SMART Scholarship		December 1, 2022
Department of Energy Fellowships		Varies
Erasmus Mundus Scholarship		Jan. 31, 2022
Ford Foundation Predoctoral Fellowships		est. Dec. 15, 2022
Fulbright U.S. Student Program, Fulbright Teaching Assistantship Grants & Fulbright Critical Language Enhancement Awards	Sept. 3, 2022	October 11, 2022
Gates Cambridge Scholarship – U.S. Citizens		est. Oct. 12, 2022
Gates Cambridge Scholarship – Non-U.S. Citizens		est. Dec. 1, 2022
GEM Fellowship Program		est. Nov. 15, 2022
Generation Google Scholarship (Asia Pacific) *		December 9, 2022
GGG (Europe, Middle East and Africa)		December 9, 2022
Graduate Fellowships for STEM Diversity (GFSD)**		December 15, 2022
Hertz Fellowships		October 28, 2022
Knight- Hennessy Scholars		Oct. 6, 2022
Knowles Science Teaching Fellowship		est. Jan. 9, 2023
Marshall Scholarship	Sept. 3, 2022	September 27, 2022
NortonLifeLock Research Group Fellowship***		est. Jan. 11, 2023

<b>George J. Mitchell Scholarship</b>		September 30, 2022
<b>NASA</b>		Varies
<b>National Institute of Health (NIH) Oxford/Cambridge Scholarship Program</b>		Nov. 30, 2022
<b>National Science Foundation GRFP</b>		Oct. 17-21, 2022
<b>New York City Teaching Fellows</b>		Priority: est. Feb 16, 2022 Final: est. March 23, 2022
<b>Robert Noyce Teaching Scholarship</b>		August 30, 2022
<b>Rhodes Scholarship</b>	Sept. 3 2022	Oct. 5, 2022
<b>Schwarzman Scholarship</b>		September 20, 2022
<b>Herbert Scoville Jr. Peace Fellowship</b>		Spring 2023: Oct. 3, 2022 Fall 2022: Jan. 21, 2022
<b>Paul &amp; Daisy Soros Fellowship</b>		Oct 27, 2022
<b>Watson Fellowship</b>	August 2, 2022	est. Nov. 2, 2022
<b>Woodrow Wilson Teaching Fellowship</b>		April 15, 2022
<b>Zonta International Amelia Earhart Fellowship</b>		est. Nov. 14, 2022

NOTE: Dates noted by est. (estimated) have not yet been published, and we have estimated the deadline based on previous years. Please use these only as a guide and be sure to check the fellowship's official website for the most up-to-date deadlines. FASA will provide a supplement to this guide in the fall with the most up to date information on deadlines.

\* Formerly known as the Google Women Techmakers Scholarship and Google Anita Borg Memorial Scholarship Program

\*\* Formerly known as the National Physical Science Consortium (NPSC) Graduate Fellowship

\*\*\* Formerly known as the Symantec Fellowship (SRL Fellowship)

## FELLOWSHIPS BY TYPE

### **Graduate Fellowships For Study/Research In The U.S.:**

Department of Defense –NDSEG  
Department of Defense – SMART Scholarship  
Department of Energy Fellowships  
DOE Computational Science Graduate Fellowship  
Ford Foundation Predoctoral Fellowship  
GEM Fellowship Program  
Graduate Fellowships for STEM Diversity (GFSD)  
Hertz Fellowship  
Knight-Hennessy Scholars  
NASA  
National Science Foundation (NSF) Fellowship  
NortonLifeLock Research Group Fellowship (NRG)  
Paul and Daisy Soros Fellowship for New Americans  
Zonta International Amelia Earhart Fellowship

### **Graduate Fellowships For Study/Research Abroad:**

American Scandinavian Foundation  
Churchill Scholarships  
Erasmus Mundus Scholarship  
Fulbright  
Gates Cambridge Scholarship  
Generation Google Scholarship  
George Mitchell Scholarship  
Marshall Scholarship  
National Institute of Health (NIH) Oxford Cambridge Scholars Program  
NortonLifeLock Research Group Fellowship (NRG)  
Rhodes Scholarship  
Schwarzman Scholarship  
Thomas J. Watson Fellowship

### **Public Policy/Public Service Fellowship:**

Capital Fellows Program  
Herbert Scoville Jr. Peace Fellowship  
San Francisco Fellows Program

### **Science Teaching Fellowships – Teaching in Secondary Schools:**

Knowles Science Teaching Fellowship  
NYC Teaching Fellowship  
Robert Noyce Teaching Scholarship  
Woodrow Wilson Teaching Fellowship

### **Fellowships That Encourage Women/Underrepresented Minorities (URMS) To Apply:**

Ford Foundation Predoctoral Fellowship  
GEM Fellowship Program  
Generation Google Scholarship  
Graduate Fellowships for STEM Diversity (GFSD)  
Paul and Daisy Soros Fellowship for New Americans  
Zonta International Amelia Earhart Fellowships



## LIST OF WEBSITES FOR FELLOWSHIPS

<b>American-Scandinavian Foundation</b>	<a href="http://www.amscan.org/fellowships-and-grants/">http://www.amscan.org/fellowships-and-grants/</a>
<b>Capital Fellows Program</b>	<a href="https://www.csus.edu/center/center-california-studies/capital-fellows.html">https://www.csus.edu/center/center-california-studies/capital-fellows.html</a>
<b>Churchill Scholarships</b>	<a href="http://www.winstonchurchillfoundation.org">www.winstonchurchillfoundation.org</a> <a href="http://www.winstonchurchillfoundation.org/kanders.html">http://www.winstonchurchillfoundation.org/kanders.html</a>
<b>Department of Defense - NDSEG</b>	<a href="https://ndseg.org">https://ndseg.org</a>
<b>Department of Energy Fellowships</b>	<a href="https://www.energy.gov/eere/fuelcells/scholarships-internships-and-fellowships">https://www.energy.gov/eere/fuelcells/scholarships-internships-and-fellowships</a>
<b>DOE Computational Science Graduate Fellowship</b>	<a href="http://www.krellinst.org/csgf">www.krellinst.org/csgf</a>
<b>Erasmus Mundus Scholarship</b>	<a href="https://eacea.ec.europa.eu/erasmus-plus/library/scholarships-catalogue_en">https://eacea.ec.europa.eu/erasmus-plus/library/scholarships-catalogue_en</a>
<b>Ford Foundation Predoctoral Fellowships</b>	<a href="https://sites.nationalacademies.org/cs/groups/pgasite/documents/web">https://sites.nationalacademies.org/cs/groups/pgasite/documents/web</a>
<b>Fulbright Grants</b>	<a href="https://us.fulbrightonline.org/">https://us.fulbrightonline.org/</a>
<b>Gates Cambridge Scholarship</b>	<a href="https://www.gatescambridge.org/">https://www.gatescambridge.org/</a>
<b>GEM Fellowship Programs</b>	<a href="http://www.gemfellowship.org">www.gemfellowship.org</a>
<b>Generation Google Scholarships</b>	<a href="https://buildyourfuture.withgoogle.com/scholarships/generation-google-scholarship-apac/">https://buildyourfuture.withgoogle.com/scholarships/generation-google-scholarship-apac/</a> <a href="https://buildyourfuture.withgoogle.com/scholarships/generation-google-scholarship-emea/">https://buildyourfuture.withgoogle.com/scholarships/generation-google-scholarship-emea/</a>
<b>Graduate Fellowships for STEM Diversity (GFSD)</b>	<a href="https://stemfellowships.org/">https://stemfellowships.org/</a>
<b>Hertz Fellowships</b>	<a href="http://www.hertzfoundation.org">www.hertzfoundation.org</a>
<b>Knight-Hennessy Scholars</b>	<a href="https://knight-hennessy.stanford.edu/">https://knight-hennessy.stanford.edu/</a>
<b>Knowles Science Teaching Fellowship</b>	<a href="https://knowlesteachers.org/teaching-fellowship/teaching-fellows-program">https://knowlesteachers.org/teaching-fellowship/teaching-fellows-program</a>
<b>Marshall Scholarship</b>	<a href="http://www.marshallscholarship.org">www.marshallscholarship.org</a>
<b>George J. Mitchell Scholarship</b>	<a href="http://www.us-irelandalliance.org">www.us-irelandalliance.org</a>
<b>NASA</b>	<a href="http://nspires.nasaprs.com/external/">http://nspires.nasaprs.com/external/</a>
<b>National Institute of Health (NIH)</b>	<a href="http://oxcam.gpp.nih.gov/">http://oxcam.gpp.nih.gov/</a>
<b>National Science Foundation (NSF) Graduate Research Fellowship Program (GRFP)</b>	<a href="https://www.nsfgrfp.org">https://www.nsfgrfp.org</a> <a href="https://www.fastlane.nsf.gov/grfp/Login.do">https://www.fastlane.nsf.gov/grfp/Login.do</a>
<b>NortonLifeLock Research Group Fellowship</b>	<a href="https://www.nortonlifelock.com/about/careers/graduate-fellowship">https://www.nortonlifelock.com/about/careers/graduate-fellowship</a>
<b>NYC Teaching Fellows</b>	<a href="http://www.nycteachingfellows.org">www.nycteachingfellows.org</a>
<b>Robert Noyce Teaching Scholarship</b>	<a href="http://app.nsfnoyce.org">http://app.nsfnoyce.org</a>
<b>Rhodes Scholarships</b>	<a href="http://www.rhodesscholar.org">www.rhodesscholar.org</a>
<b>San Francisco Fellows</b>	<a href="http://sfdhr.org/sffellows">http://sfdhr.org/sffellows</a>
<b>Schwarzman Scholarship</b>	<a href="http://schwarzmanscholars.org/">http://schwarzmanscholars.org/</a>
<b>Herbert Scoville, Jr. Peace Fellowship</b>	<a href="http://scoville.org/">http://scoville.org/</a> <a href="http://scoville.org/apply/application-information/">http://scoville.org/apply/application-information/</a>

<b>Paul &amp; Daisy Soros Fellowships for New Americans</b>	<a href="http://www.pdsoros.org">www.pdsoros.org</a>
<b>Thomas J. Watson Fellowships</b>	<a href="https://watson.foundation/fellowships/tj">https://watson.foundation/fellowships/tj</a>
<b>Woodrow Wilson Teaching Fellowship</b>	<a href="http://www.wwteachingfellowship.org/">http://www.wwteachingfellowship.org/</a>
<b>Zonta International Amelia Earhart Fellowship</b>	<a href="http://www.zonta.org">www.zonta.org</a>

# Caltech Guide to Fellowships & Scholarships 2022 - 2023

## INTRODUCTION

### **What are fellowships?**

A fellowship or scholarship provides a recipient with funds to support academic study or research. Some fellowships also provide funds for living expenses, books, and travel related to the fellow's area of academic interest. Many types of fellowships exist. Fellowships are awarded at the undergraduate, graduate, post-graduate, and professional level of study. There are special types of fellowships available. This guide discusses fellowships that are primarily awarded to graduating seniors. However, some of these are available to current graduate students or alumni.

Many of the fellowships reviewed in this guide support graduate study abroad. Others, such as the Department of Defense's National Defense Student Education Grant fellowships, support graduate study only in the U.S.

### **Why apply?**

One reason is money! Many fellowships provide more ample funds for study than the traditional grants awarded to beginning graduate students. However, the time and energy needed to apply for a fellowship require applicants to look beyond the funds to the experience itself. It is very difficult to obtain funds to study abroad. Fellowships such as the Fulbright, Marshall, Churchill, Watson, and Rhodes allow you to do just that. The science and engineering fields require international communication. Ironically, most scientists and engineers obtain most of their early education and experience in the U.S. The opportunity to go abroad for one or two years to study and do research will enlarge your knowledge of how science or engineering is "done" elsewhere, allow you to make international contacts that can last a lifetime, and learn how scientists and engineers are viewed in another culture.

Applying for a fellowship or scholarship may seem like a major endeavor. However, if you are applying to graduate school, applying for fellowships is a directly related activity. In graduate and fellowship applications, you must write an essay that outlines your professional goals and objectives for graduate study. Both require letters of recommendation. In contrast to the mid-winter deadline dates for graduate school application, fellowships usually have fall application deadlines, with some exceptions. Those applying for fellowships "get a jump" on the graduate school application process.

### **Where can I study?**

Some fellowships such as the Fulbright will allow a great range of country options. Others will limit you to a particular country: e.g., the Marshall restricts applicants to study in Great Britain. Others will restrict you to a particular university: e.g., the Churchill to Churchill College, Cambridge or Hertz restricts you to a group of U.S. graduate schools.

### **How do I apply?**

This guide will describe the basic application procedures and requirements. It is best for you to consult the actual application material itself for specific details. It is also recommended that you meet with Lauren Stolper, Director of Fellowships Advising and Study Abroad, to discuss your specific situation.

## **Where is the Fellowships Advising & Study Abroad Office located?**

The Fellowships Advising & Study Abroad Office is located in the Center for Student Services, on Holliston Avenue, Building 86/87 on the campus map. Our office is on the 3<sup>rd</sup> floor in the south wing of the building, Room 319, across from the Information Management Systems and Services office (IMSS).

## **Caltech Guide to Fellowships and Scholarships 2022-2023**

### **Written by:**

Lauren Stolper, Director

### **Updated by:**

Lauren Stolper, Director

Meghan Kuroda, Assistant Director

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(626) 395-2150

<http://fasa.caltech.edu/>

### **Please Note:**

**Though this guide is updated annually, not all information is available at time of printing. Be sure to check the sponsor's website for up-to-date information including deadlines.**

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## *Graduate Fellowships for Study/Research in the U.S.*

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### **DEPARTMENT OF DEFENSE, NATIONAL DEFENSE SCIENCE AND ENGINEERING GRADUATE FELLOWSHIP (NDSEG)**

#### Overview

The DOD National Defense Science and Engineering Graduate Fellowship (NDSEG) can be used at any accredited U.S. university for graduate study. The awards support graduate students in fields important to national defense needs. However, this stipulation should be broadly construed and most prospective graduate students in the sciences and engineering are eligible to apply. For example, the biosciences are an eligible field.

The NDSEG Fellowships are intended for students who are at or near the beginning of their graduate study for a Ph.D. in science or engineering. Ninety-seven percent of fellowships are awarded to students who are either graduating seniors or in their first year of graduate study. Fellowships are awarded for a maximum period of three years of graduate study. The actual number of awards varies from year to year depending upon the available funding. Over 10,000 applications are received each year. Applications are encouraged from minority students, women, and those with disabilities. Ten percent of these awards are set-aside for applicants from underrepresented minority groups. The NDSEG pays for full tuition and all mandatory fees, a \$3200 monthly stipend, and up to \$1,200 a year in medical insurance (this excludes dental and vision insurance). NDSEG Fellowships last for three years.

#### Requirements

Applicants must be citizens or nationals of the United States – proof of citizenship is required. Permanent residents are not eligible for this fellowship. The NDSEG covers graduate study in the following fields: aeronautical and astronautical engineering, biosciences, chemistry and chemical engineering, cognitive, neural and behavioral sciences, computer sciences, electrical engineering, geosciences, manufacturing and industrial engineering, materials science and engineering, mathematics, mechanical engineering, naval architecture and ocean engineering, oceanography and physics.

#### Application Procedures/Deadlines

All applicants must submit their applications online. Detailed instructions for electronic submission and for mailing supporting documents are integrated into the online application, which can be found at <https://ndseg.org/apply-link>. Check the website for this year's due submission date, which is usually in December. Applicants are usually notified in April regarding the outcome of the selection process.

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### **DEPARTMENT OF DEFENSE, SMART SCHOLARSHIP**

#### Overview

The SMART (Science, Mathematics and Research for Transformation) Scholarship is open to U.S. citizens studying one of the allowed subjects (see website for complete list) as an undergraduate or graduate student. The award covers:

- Full tuition and education related fees (does not include items such as meal plans, housing, or parking)
- Stipend paid at a rate of \$25,000 - \$38,000 depending on prior educational experience (may be prorated depending on award length)
- Paid summer internships
- Health Insurance reimbursement allowance up to \$1,200 per calendar year
- Book allowance of \$1,000 per academic year

- Mentoring
- Employment placement after graduation

#### Requirements

Applicant must have a 3.0 GPA on a 4.0 scale, be a U.S. citizen, be able to participate in summer internships with the DOD, and be willing to accept post-graduate employment with the DoD at a ratio of one year of school funding to one year of employment.

#### Application Procedures/Deadlines

Applications are submitted online through the SMART Scholarship website. The due date is usually in December.

For more information, visit: <https://www.smartscholarship.org/smart>

## **DEPARTMENT OF ENERGY FELLOWSHIPS**

#### Overview

**The U.S. Department of Energy (DOE) sponsors approximately one hundred fellowship opportunities** for faculty, post-docs, graduate students and undergraduates who are interested in research related to energy concerns. The Oak Ridge Institute administers the DOE awards for Science and Education (ORISE). These awards require U.S. citizenship or permanent residency. Some awards are restricted to U.S. citizens only. In addition to the two highlighted below, students can search for specific fellowship options on their websites:

[www.energy.gov/scholarships&internships.htm](http://www.energy.gov/scholarships&internships.htm)

[www.ornl.gov](http://www.ornl.gov)

## **DOE COMPUTATIONAL SCIENCE GRADUATE FELLOWSHIP PROGRAM (DOE CSGF)**

#### Overview

The

of \$37,000, an academic allowance of \$5,000 for research the first year (\$1,000 in following years). Computational Science Graduate Fellowship Program is sponsored by the U.S. Department of Energy through the Office of Scientific Computing. The program supports full-time doctoral study in the United States in an applied science or engineering discipline with applications in high-performance computing.

Fellowships are granted for one-year renewable terms from September 1 through August 31 of each year. This fellowship can cover up to 48 months of graduate study. These fellowships will provide tuition, fees, a yearly stipend

#### Requirements

Students must be planning full-time, uninterrupted PhD study in the life, physical, engineering, and mathematical sciences at a U.S. university. Support of this fellowship is limited to 4 years and must be renewed each year. Applicants must be either U.S. citizens or permanent resident aliens who are exceptional senior undergraduates or in their first of graduate study (without an M.S.).

#### Application Procedures/Deadlines

The application is straightforward and, in addition to standard background information, requests a statement of career and academic goals, a list of current and planned courses, a transcript, three references and GRE scores. Applications are usually available at <http://www.krellinst.org/csgf> in October and must be completed online by 5pm on the due date, usually in January.

## DOE NATIONAL NUCLEAR SECURITY ADMINISTRATION STEWARDSHIP SCIENCE GRADUATE FELLOWSHIP (DOE NNSA SSGF)

DOE NNSA SSGF offers a yearly stipend, tuition and fees for students pursuing a Ph.D. in areas of interest to stewardship science, such as high-energy density physics, low-energy nuclear science, or properties of materials under extreme conditions. The application deadline is usually in mid-January. More info can be found here: <http://www.krellinst.org/ssgf>.

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## FORD FOUNDATION PREDOCTORAL FELLOWSHIPS

### Overview

The Ford Foundation seeks to increase the number of minorities who are underrepresented as faculty members in U.S. colleges and universities. Applicants must be pursuing research or teaching careers. Students may study the behavioral or social sciences, humanities, biological sciences, mathematics, physical sciences and engineering or an interdisciplinary area. Awards will not be made to those seeking professional degrees, the fine or performing arts, or education. Awards will not be made for terminal Master's degrees. Seniors or current graduate students can apply. Approximately 60 pre-doctoral and 29 dissertation fellowships are awarded yearly. See the Ford brochure for more information on the dissertation awards. Predoctoral awards, which are granted to college seniors or first and second year grad students, provide an annual stipend of \$24,000. Awards are for three years and can be used at any accredited nonprofit U.S. institution granting Ph.D. or Sc.D. degrees in the fields specified above.

Eligibility to apply for a predoctoral fellowship is limited to:

- All citizens, nationals, and permanent residents (holders of a Permanent Resident Card) of the United States, as well as individuals granted deferred action status under the Deferred Action for Childhood Arrivals Program, regardless of race, national origin, religion, gender, age, disability, or sexual orientation,
- Individuals with evidence of superior academic achievement (such as grade point average, class rank, honors, or other designations),
- Individuals committed to a career in teaching and research at the college or university level,
- Individuals enrolled in or planning to enroll in an eligible **research-based (dissertation-required)**, program leading to a Ph.D. or Sc.D. degree at a **non-proprietary (not for profit)** U.S. institution of higher education,
- Individuals who as of the 2018 fall semester require a minimum of three years of study to complete their Ph.D./Sc.D. degree, and
- Individuals who have not earned a doctoral degree at any time, in any field.

### Application Procedures/Deadlines

Graduating seniors and graduate students must submit scores from the GRE General Test. Applicants must submit transcripts, recommendations, a plan of study and a thoughtfully prepared application by the application online submission deadline, which is usually in mid- December. For more information, including a downloadable brochure, please visit:

[https://sites.nationalacademies.org/PGA/FordFellowships/PGA\\_171962](https://sites.nationalacademies.org/PGA/FordFellowships/PGA_171962)

[https://sites.nationalacademies.org/cs/groups/pgasite/documents/webpage/pga\\_362124.pdf](https://sites.nationalacademies.org/cs/groups/pgasite/documents/webpage/pga_362124.pdf)

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## GEM FELLOWSHIP PROGRAM

### Overview

The GEM fellowship programs are designed to offer opportunities for under-represented minority students to obtain M.S. degrees in engineering and Ph.D. degrees in engineering and the natural and physical sciences through a program of paid summer internships and graduate financial assistance.

### Eligibility

Candidates for participation in these programs are selected from the following under-represented minority groups: African American, Mexican American, American Indian, Puerto Rican American, and other Hispanic Americans. The application must be a U.S. citizen at the time of application. In addition, the following academic requirements must be satisfied:

-- M.S. Engineering Applicant: Must pursue the M.S. degree in the same academic major as the baccalaureate, and currently be a junior, senior, or graduate of an engineering program accredited by the Accreditation Board for Engineering and Technology (ABET). Computer science and computer engineering majors are also eligible; however, engineering technology majors are not eligible. Minimum acceptable GPA is 2.80 on a 4.00 scale.

-- Ph.D. Engineering Applicant: Must have an M.S. degree or be currently enrolled in an M.S. engineering degree program. Support will commence upon completion of the M.S. degree. Minimum acceptable GPA is 3.00 on a 4.00 scale.

-- Ph.D. Science Applicant: Must be a junior, senior, or graduate of a life science, mathematics, or physical science program, and enroll in a graduate program in the same discipline. Minimum acceptable GPA is 3.00 on a 4.00 scale.

GRE results are required.

### Financial Support

Both the M.S. engineering fellowship and the Ph.D. fellowships pay tuition, fees, and a stipend. The stipend for the M.S. program is \$16,000 over the entire Master's program. The Ph.D. programs offer a \$16,000 stipend per year plus additional stipend (assistantships, grants, other stipend dollars) support from GEM Member University to bring the stipend amount up to the funding level of other funded PhD students in that department. Both depend on academic status at time of application (i.e., junior, senior, graduate, or working professional), summer employer, and graduate school costs.

### Application Procedures/Deadlines

Applications are submitted online. Students are encouraged to submit Part 1 of the application with their resume and transcript by October 1 for early consideration. The deadline for applications is in mid-November. Applications are available on their website at [www.gemfellowship.org](http://www.gemfellowship.org).

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## **GRADUATE FELLOWSHIPS FOR STEM DIVERSITY (GFSD)**

### Overview

The GFSD (formerly the National Physical Science Consortium, NPSC) offers graduate fellowships in the physical sciences and related engineering fields. GFSD's partners select those they wish to support through an annual fellowship allowance and summer internships. Partners pay no annual fee and are not required to support a minimum number of fellows. GFSD's 125 research university members do not require fellows to pay tuition, greatly reducing the cost to a GFSD partner compared to funding its own fellowship program, which would typically have to cover graduate tuition. The annual allowance per GFSD fellow is \$20,000 and GFSD's administrative fee is \$7,000, for a total annual cost of \$27,000. A federally-funded STEM fellowship like the NDSEG can cost \$80,000. Current federal partners include Los Alamos National Laboratory, Lawrence Livermore National Laboratory, the National Institute of Standards and Technology, the National Security Agency, and Sandia National Laboratory. The two summer internships build a connection with these diverse and talented predoctoral scientists that can lead to hiring down the road.



## Requirements

All GFSD welcomes applications from any qualified U.S. citizen who has the ability to pursue graduate work at a GFSD university associate. Applicants at any stage of their graduate program may apply, as long as they will be available to accept two summers of paid internship. Those who already possess a doctoral degree are ineligible.

## Application Procedures/Deadlines

**Applications are usually due mid-December. Apply online at <https://stemfellowships.org/>. Contact GFSD with any questions at (800) 854-6772 or e-mail at [gfsd@stemfellowships.org](mailto:gfsd@stemfellowships.org).**

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## **HERTZ FELLOWSHIPS**

### Overview

The Fannie and John Hertz Foundation Graduate Fellowships are based on merit (not need). There are two options for Hertz Fellowships:

#### **Option 1 – Five Year Hertz**

- \$34,000 / 9-month Personal Stipend
- Full Tuition Equivalent
- Renewable for up to 5 years

#### **Option 2 – Five Year Coordinated**

Hertz Period – Two Years

- \$40,000 / 9-month Personal Stipend
- Full Tuition Equivalent

Other Fellowship Period – Up to Three Years

- \$8,000 / year Supplemental Stipend from Hertz
- Requires recipient to accept 3-year Fellowship from another source, e.g., NSF or university sponsored fellowship.

The fellowship supports academic versus professional graduate study, e.g., study for the Ph.D. Only those studying the physical sciences whose work will have real world applications versus the theoretical are eligible. This focus, however, may be broadly construed. The official description of the fellowship stresses applicants who are “willing to morally commit to make their skills available to the United States in time of national emergency.” Again, this should not be taken literally. Students with excellent academic credentials, who plan to study in some area of the physical sciences, should definitely consider applying for the Hertz, which offers very generous support. There are 10-15 awards annually. Fellows must attend one of the Foundation’s tenable schools, which are listed on their website.

### Eligibility

Any senior or graduate student is eligible to apply, although they generally do not award fellowships to students who are already beyond their first year of graduate study except in cases of "exceptional leverage". There is no GPA requirement. However, students should demonstrate academic excellence through their academic record.

### Requirements

Applicants must be students of the applied physical sciences, a U.S. citizen or permanent resident. Applications are accepted from seniors and from current graduate students at any stage of their graduate study. Those with exceptional creativity, broad understanding of the physical sciences, and outstanding potential for innovative research are expected. Applicants will also be screened for specific qualities listed on the fellowship’s web site.

Each applicant needs to answer four questions in an essay format. The topics are:

- 1) Choice of Field and Future Expectations
- 2) Proposed Field of Study
- 3) Choice of Graduate School
- 4) Chronological Resume

#### Application Procedures/Deadlines

The application period begins in August. Applications are submitted online (<http://www.hertzfoundation.org>). Application and support materials have separate deadline dates that usually fall in the last week of October.

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## **KNIGHT-HENNESSY SCHOLARS**

### Overview

Each year the **Knight-Hennessy Scholars** program will identify a group of 100 high-achieving students from around the world with demonstrated leadership and civic commitment to receive full funding to pursue a wide-ranging graduate education at Stanford, with the goal of developing a new generation of global leaders.

The Knight-Hennessy Scholars Program funds up to three years of graduate education. If the applicant's graduate degree program exceeds three years, such as an MD or PhD program, then the home department will fund the remainder of the scholar's education (to the extent consistent with its standard funding commitment for that program). The Knight-Hennessy Program cannot be deferred, but applicants can reapply for the year they wish to join. This indicates it cannot be "coordinated" with fellowships such as the NSF GRFP nor deferred if a student wins a Fulbright, Marshall, Gates, Rhodes, etc.

### Eligibility

There is no citizenship requirement. Applicants for the Knight-Hennessy Scholars Program must apply within four years, and enroll within five years, after earning their first bachelor's degree.

Graduating seniors may apply, but must complete their Caltech B.S. before they enroll as a graduate student at Stanford in the fall after receiving their B.S.

To qualify for the Knight-Hennessy Scholars Program, applicants must also apply to enroll in a full-time graduate degree program at Stanford (e.g., JD, MA, MBA, MD, MS, or PhD) or plan on pursuing one of Stanford's many joint- and dual- graduate degree options (e.g., MD+PhD, JD+MA, MBA+MS). There are no allocations or quotas by discipline or program. However, the program will give priority to applicants who are pursuing graduate programs that last more than one year.

### Application Procedures/Deadline

Application requirements and instructions will be released in May of each year. The application deadline is in late September. However, in order to apply for this opportunity, all candidates must apply separately to the specific Stanford graduate degree program that they wish to pursue no later than November 15 of the year of the Knight-Hennessy application. For more information go to <https://knight-hennessy.stanford.edu/admission/applying-knight-hennessy-scholars>.

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## **NASA**

NASA has a variety of fellowships that change each year and can be explored through their One Stop Shopping Initiative (OSSI) <https://www.nasa.gov/education/fellowships-scholarships/index.html>. Students can also search through the list of solicitations on the NASA NSPIRES website, <https://nspires.nasaprs.com/external/index.do>.

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## NATIONAL SCIENCE FOUNDATION GRADUATE RESEARCH FELLOWSHIP PROGRAM (NSF GRFP)

### Overview

NSF Graduate Research Fellowships provide support for research based graduate study leading to doctoral degrees in the natural sciences, mathematics, computer sciences, engineering, behavioral and social sciences, and in the history or philosophy of science.

**Effective as of the 2017 competition, NSF will limit graduate students to only one application to the GRFP, submitted either in the first year or in the second year of graduate school.**

Individuals are typically eligible to apply:

- During the senior year of college
- After graduating from college and prior to entering graduate school
- During the first OR second year of graduate school

Graduate study may be pursued in the U.S. only, with the exception of the NSF GROW program. The NSF is highly competitive. For the 2018 competition, NSF received over 12,000 applications, and made 2,000 award offers.

Awards carry a stipend for each fellow of \$34,000 for a 12-month tenure and an annual cost-of-education allowance of \$12,000, paid to the Fellow's institution in lieu of tuition and fees.

Students should read the annual NSF GRFP Program Solicitation for all information on eligibility and to understand the application process and requirements of the NSF.

### Requirements

Applicants must be U.S. citizens or nationals or those who are permanent resident of the United States at the time of application. Applicants should have an excellent academic record and have demonstrated their ability to do original research or other creative work related to their field of study. Generally, more awards are given in the physical sciences than the social sciences and the philosophy or history of science. Note that applicants find the essays to be quite difficult and require a great deal of thought and editing. Applicants must articulate clear and definite plans for their Ph.D. research and graduate study.

Although there are no GPA requirements, Caltech seniors and first year grad students receiving the NSF have usually had a 3.5 or better GPA.

### Application Procedures/Deadlines

The NSF application electronic transmission deadlines fall near the end of October. **Be sure to check the exact dates for the application process when the NSF Fastlane goes live in August or September. Each group has a different deadline, and they are usually grouped as follows:**

- Engineering; Computer and Information Sciences and Engineering; Materials Research
- Mathematical Sciences; Chemistry; Physics and Astronomy
- Social Sciences; Psychology; STEM Education and Learning
- Life Sciences; Geosciences

**The NSF requires that students use the electronic submission process. Note that when you submit, you will receive a return receipt. If you do not receive this message, your submission did not go through.**

The NSF does not require applicants to submit GRE scores and prefers that recommenders not mention scores either.

The NSF essays require that students be able to articulate very specific plans for graduate study. Applicants must have top notch essays to win. Your grades and essays along with your reference letters are the most crucial part of the application process, but the essays are the part of the application that is under your direct control. Essays must demonstrate 50% Intellectual Merit and 50% Broader Impacts. Read through the NSF website thoroughly for details on these requirements. Students have found it helpful to have their essays reviewed by the Fellowships Advising and Study Abroad Office. It is also helpful to have faculty read your essays and give you their comments and suggestions. You can review sample essays in our office.

Panels of faculty members from all over review applications in the early winter. Each application is read by at least two faculty members related to the applicant's field. Applicants receive a score from 1 to 6 with 1 being high and 6 low, as well as comments on their essays. Faculty look carefully at grades, references, the research statement, research plan, and personal statement. The top 10% of applicants automatically receive NSF fellowships. The next 15% of applicants undergo a statistical analysis that results in half of this group getting NSF fellowships. The rest of this group plus the next 15% of students get honorable mention. The NSF can be deferred for up to two years. It cannot be accepted concurrently with another federal fellowship.

Applicants are notified of their status around the end of March, and all applicants receive feedback on their essays. Be sure to print this feedback for future reference. Usually by mid-March a list of winners is available on the web at [www.nsf.gov/grfp](http://www.nsf.gov/grfp). Be sure to download the most up to date Program Solicitation form from the website for the due dates and any possible changes to the application process or requirements. Applications are online at <http://www.fastlane.nsf.gov/fastlane.jsp>.

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## **NORTONLIFELOCK RESEARCH GROUP GRADUATE FELLOWSHIP**

### Overview

The NRG Graduate Fellowship, formerly known as the Symantec Research Labs Fellowship (SRL), provides up to \$20,000 USD that may be used to cover one year of the student's tuition fees and to reimburse expenses incurred by the student to engage into research collaboration with Symantec, such as conference registration fees, travel expenses, hardware, etc. Mentors from Symantec Research Labs are paired with award recipients. The mentor is a top researcher who can provide ongoing technical guidance on the recipient's research, during their graduate training as well as during summer internships at Symantec. All recipients will be encouraged to take a salaried summer internship with Symantec Research Labs. Fellowships are awarded to recipients for one academic year and may be extended for a second year, based on the award recipient's continued exceptional academic standing, progress and achievement. Any such extensions will be granted solely at Symantec's discretion.

### Requirements

Applicants must attend a U.S. university in a Ph.D. or master's program focused on technology research. Exceptional graduating undergraduate seniors may also apply and final award is contingent on their acceptance to a graduate program. Preference will be given to students with a desire to work in an industrial research lab and those working on research projects likely to have real-world practical value to customers, in areas related to Symantec's businesses of information security, availability, and integrity. The scholarship awards will be made through the university and are not transferable to another academic institution.

### Application Procedures/Deadline

Applicants must complete an application and provide references and transcripts by the December deadline. For more information go to <https://www.nortonlifelock.com/about/careers/graduate-fellowship>.

## PAUL & DAISY SOROS FELLOWSHIPS FOR NEW AMERICANS

### Overview

The Paul and Daisy Soros Fellowships for New Americans supports thirty awards per year for up to two years of graduate study in any subject anywhere in the United States. The fellowship provides a maintenance allowance of \$25,000 and a tuition grant of one-half the tuition cost of the US graduate program attended by the Fellow (up to a maximum of \$20,000 per academic year). The Fellowship Program pays the tuition grant directly to the institution. The size of the tuition grant depends on the cost of tuition at the institution the Fellow attends. Fees are not included in calculating tuition.

### Requirements

Graduating seniors or current graduate students may apply. Applicants must be either holders of Green Cards, naturalized citizens, children of two naturalized citizen parents, DACA, or born outside of the US and adopted by American parents. Applicants must be between 20 and 30 years of age as of the November deadline. See the website for full requirements.

### Application Procedures/Deadlines

Applicants must complete an application and provide references and transcripts by the early November deadline. Interviews are held in New York and LA in January, to which only 7-9% of applicants are invited. Recipients are announced in early March. You can obtain more information and apply online at [www.pdsoros.org](http://www.pdsoros.org).

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## ZONTA INTERNATIONAL AMELIA EARHART FELLOWSHIPS

### Overview

The **Zonta International Foundation** established this award to honor famed air pioneer and Zontian, Amelia Earhart. The \$10,000 award is for women who have completed at least one year of graduate study in an area of science or engineering that is closely related to advanced studies in the aerospace-related sciences. While often thought of as an award just for those studying aerospace sciences, awards have been made for graduate study in such fields as aerospace, engineering, astronomy, astrophysics, biomedical engineering, computer science, fluid mechanics, geological oceanography, meteorology, molecular biology and space medicine. Therefore, this grant supports a wider range of study than commonly thought. About 30-40 grants are made yearly and the one year grant can be renewed for a second year by repeating the application process.

### Requirements

Applicants must have a bachelor's degree in an area of science or engineering that is closely related to advanced studies in the aerospace-related sciences. They must be pursuing their studies in a university that offers accredited courses in aerospace-related studies. Applicants must have a superior academic record and show evidence of a well-defined program of graduate study in the aerospace-related sciences or aerospace-related engineering. **Applicants must have completed one year of graduate school or be a graduating senior with a track record of well-defined research as demonstrated by a senior research project or publications.** Women of any nationality may apply.

### Application Procedures/Deadlines

Candidates must submit a completed application and provide three recommendations and transcripts. Applications can be downloaded from the website, and must be *postmarked* by application deadline. Award recipients are notified in April. Applications are available in the fall at [http://www.zonta.org/Web/Programs/Education/Amelia Earhart Fellowship](http://www.zonta.org/Web/Programs/Education/Amelia_Earhart_Fellowship).

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## *Graduate Fellowships for Study/Research Abroad*

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### **AMERICAN-SCANDINAVIAN FOUNDATION AWARDS FOR STUDY IN SCANDINAVIA**

#### Overview

The American-Scandinavian Foundation (ASF) provides fellowships for advanced research or study in Denmark, Finland, Iceland, Norway, and Sweden. Fellowships are intended to support a yearlong stay and priority is given to graduate students for dissertation-related study or research. Fellowships are valued at up to \$23,000. The number of awards depends on the total funds available by country.

#### Requirements

Applicants must be U.S. citizens or permanent residents. Applicants must have received their undergraduate degree by the time that they begin their study or project in Scandinavia. ASF prefers applicants to have some ability in the language of their host country. Applicants must have a well-defined study project that makes a stay in Scandinavia essential. The ASF prefers to support senior graduate students at the dissertation level for yearlong study or research. Smaller grants of approximately \$5,000 are available to support one to three months of postgraduate study.

#### Application Procedures/Deadlines

Applicants must complete the ASF application, references, and transcripts online by an early November deadline. Award results are announced in April. Applications are available online at <http://www.amscan.org/fellowships-and-grants/>.

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### **CHURCHILL SCHOLARSHIP**

#### Overview

The Churchill funds one year of study and research in the sciences, mathematics, or engineering at Churchill College, Cambridge University, England. Twelve awards are given yearly and all tuition and fees are paid. Students enrolled in the nine-month program will receive an annual living allowance of £11,000-£13,000 depending on the length of their academic program. They also receive a travel allowance of \$1,500. Married students who are accompanied by their spouses receive an additional allowance of £500. Depending on the field of study and recent rates of exchange, the value of a Churchill Scholarship is approximately \$50,000 to \$60,000.

The Churchill Foundation also funds Special Research Grant Program. Churchill Scholars will be eligible for up to \$2,000 in research expenses approved in advance by the Foundation. The Special Research Grant may be used to pay for travel to a conference where a Churchill Scholar has been invited to present a paper, to buy specialized software related to his or her research interests, or other expenses that the Foundation will consider on a case-to-case basis.

#### Requirements

Applicants must be U.S. citizens. Only graduating seniors are eligible to apply. Applicants must be between the ages of 19 and 26 and must possess a bachelor's degree at the time the scholarship begins. Applicants may hold a Master's, but not a Ph.D. Applicants should have good character and demonstrate a concern about the critical issues that face the world.

Applicants should have an exceptional academic record. Winners usually have at least a 3.9 G.P.A. The selection committee is also seeking applicants that have demonstrated their originality through creative work in their field of study or interest.

Applicants need strong letters of recommendation and must take the general test of the GRE no later than November of their senior year.

### Application Procedures/Deadlines

*Students must submit the application to the FASA Office by the campus deadline.*

**Students must apply to the University of Cambridge by the October deadline and submit all Churchill Scholarship materials to the FASA Office by the campus deadline in September. Caltech can nominate two students to the national committee.**

The Churchill application, as well as very clear directions from the Foundation, can be found online here: <https://www.churchillscholarship.org/>.

If endorsed by Caltech, seven reviewers in the National Churchill Committee: five academic, one industrial and one chair will rank 20-25 students for 15 fellowships. The National Churchill Committee informs nominees in January whether their application will be forwarded to Cambridge University for review. These recommended students will be interviewed in January or early February. Winners are announced by early April.

## **KANDERS CHURCHILL SCHOLARSHIP**

### Overview

The Kanders Churchill Scholarship was created to address the growing divide between science and science policy. At present, there is just one Kanders Churchill Scholarship available each year. The recipient will join the cohort of the existing 15 Churchill Scholars in science, mathematics, and engineering, bringing the size of the group to 16 Scholars.

The Kanders Churchill Scholar will hold a bachelor's degree (either as a major or minor concentration) in science, mathematics, or engineering, and will attend the Cambridge Master's in Public Policy (see <https://www.polis.cam.ac.uk/study-at-polis/graduates/MPhilPP>). It is an addition to the Churchill Scholarship program and builds upon the two days of science policy seminars and visits to UK government ministries, which was introduced in the 2016-17 academic year for all Churchill Scholars.

### Requirements

Applicants for the Kanders Churchill Scholarship must be US citizens who are seniors when they apply or have graduated from any US institution.

### Application Procedures/Deadlines

*Students must submit the application to the FASA Office by the campus deadline.*

Unlike the other Churchill Scholarships, there will be no application to the Churchill Foundation. Instead, candidates will state their interest in the Kanders Churchill Scholarship on their Cambridge application: (see <https://www.polis.cam.ac.uk/study-at-polis/graduates/MPhilPP/fees-and-funding>). The deadline is in early October (date to be announced).

Applicants must put Churchill College as their first college choice. The selection process will be completed in early February. The Selection Committee will consider candidates' academic achievements in STEM as well as their preparation for the Master's in Public Policy.



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## **ERASMUS MUNDUS JOINT MASTERS DEGREE (EMJMD) and JOINT DOCTORATES (EMJD)**

### Overview

The Erasmus Mundus Scholarship offers funding for study, teaching or research activities in the framework of selected consortia or partnerships at participating universities in the European Union. There are different possibilities for Master's or Ph.D. studies. The award covers travel/installation contribution, tuition fees, insurance and monthly allowance. For two years it offers \$42,000. For a list of partnerships for masters of doctorate programs, visit: [https://eacea.ec.europa.eu/erasmus-plus/library/scholarships-catalogue\\_en](https://eacea.ec.europa.eu/erasmus-plus/library/scholarships-catalogue_en)

### Requirements

The Erasmus Mundus program offers full time scholarships to students from any non-European Union country. Students from Europe as well as Iceland, Norway and Liechtenstein are ineligible. Eligible students should not have carried out their main activities (studies, work, etc.) for more than a total of 12 months over the last five years in one of the above-mentioned countries. Fellows must split the two-year Master's program between two participating universities.

### Application Procedures/Deadlines

Students apply directly to the Erasmus Mundus Masters consortium offering the course the student has chosen to take. Students can apply for up to three different courses. Each has a different procedure and deadline. To view the different consortia, go the Erasmus Mundus website and search for your academic discipline. Once you click on it, a list will appear of the different academic courses throughout Europe. Each course website provides specific information about their program, application and deadlines. It is while applying for one of these programs that students apply for the Erasmus Mundus Scholarship. Students are usually notified in May if they have won the scholarship.

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## **FULBRIGHT**

### Overview

There is a myriad of Fulbright grants available. This guide will focus on the Fulbright Grants for Graduate Study that provide one year of graduate study abroad. It should be noted that in most cases this year should not be devoted to commencing Ph.D. studies. Rather, the applicant should have a specific program of study or project that they wish to accomplish. The Fulbright is a wonderful opportunity for graduate students completing their Ph.D. studies and seeking a post-doctoral year abroad or grad students needing to complete a special project.

Fulbright requirements can vary according to the host country. In most cases, applicants must have earned their bachelor's degree prior to starting their grant. Applicants applying for a Fulbright through Caltech must be U.S. citizens and have language proficiency in the language of the host country. Those with other citizenship should contact their country's embassy or consulate to inquire if their country participates in the Fulbright program.

Recipients receive round-trip travel, tuition, living expenses, books, and a language orientation course when necessary. The Fulbright offers so many options that students can feel overwhelmed by the brochure. Please feel free to consult with Lauren Stolper who acts as Caltech's Fulbright Advisor if you need any assistance whatsoever in clarifying the Fulbright options. The brochure, "Fulbright and Other Grants for Graduate Study Abroad" provides information about awards in specific countries. Teaching assistantships are also available through the Fulbright program. Several countries seek individuals to teach science, math,



or English. Grants are also available in the performing arts. Again, the Fulbright brochure or the fellowship advisor can help you find out about these grants. It should be noted that no support is available for spouses.

### United Kingdom

Candidates may pursue independent post-BA-level research, or undertake a graduate degree program with affiliation at any accredited academic institution. Of the 48 awards, only up to four are tenable at *any* UK institution in England, Scotland, Wales and Northern Ireland. *These 'open' awards are the Commission's most competitive awards* and prospective applicants should consider carefully all award categories before choosing to which to apply. The Cambridge and Oxford programs are only for PhD study.

### Requirements

The J. William Fulbright Foreign Scholarship Board seeks the best-qualified students regardless of degree level. It is not necessary for applicants to have specific career goals. Applicants must be citizens of the United States and must have a BA or BS by the time they begin their period of study as a Fulbright Scholar. Applicants should possess a solid G.P.A. of 3.5 and up. Highly competitive countries may need 3.7+. Students with a track record of independent study experiences or research are looked on with favor.

Applicants may not hold a doctoral degree at the time of application, unless otherwise noted. Those already holding a Ph.D. degree at the time of application should investigate the Fulbright Grants for Faculty and Professionals. Information on this program can be accessed through the Fulbright link given below.

One of the biggest myths of the Fulbright program is that applicants must be proficient in the host country's language to even consider applying to any particular country. Although language proficiency may be a factor in competitiveness, it does not mean that a candidate is ineligible to apply. In general, an applicant should have the necessary language skills to complete the project that they design using whatever language skills they have.

### Application Procedures/Deadlines

*Students must submit their application to the FASA Office by the campus deadline in September.*

Student Fulbright competition usually opens in May. Students interested in applying for a Fulbright should meet with the Director of FASA, Lauren Stolper, in the spring or summer before the deadline.

Applicants can apply to only one country. However, applicants will be considered for all grants within that country including teaching assistantships. Usually individuals may apply to study any field taught at the university level. Awards are also available to those in the performing arts. Occasionally a field of study is "nonrecommended" for study in a particular country. These fields are specified in the Fulbright brochure in the individual country descriptions. The Fulbright Advisor must submit applications of endorsed candidates to the International Institute of Education by the national deadline, usually the third week in October. In January, applicants will be advised whether their application will be recommended. Those selected as finalists will be notified by their respective country committee between February and June. Applications are available in May on the Web at <https://apply.iie.org/apply/>.

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## **FULBRIGHT – CRITICAL LANGUAGE ENHANCEMENT AWARD**

**This award is held in conjunction with a full Fulbright grant.**

### Overview

The purpose of the Critical Language Enhancement Award is to cultivate language learning prior to and during the Fulbright grant period and beyond. Ultimately, critical language enhancement awardees will achieve a high level of proficiency in a targeted language and will go on to careers or further study which will incorporate the use of this and/or related languages.

Each year, up to 150 Critical Language Enhancement Awards will be available for grantees to pursue in-country training for up to **six months prior to beginning their Fulbright project**. The languages available

for the Critical Language Enhancement Award: Arabic, Azeri, Bengali, Chinese (Mandarin only), Farsi, Gujarati, Hindi, Korean, Marathi, Pashto, Punjabi, Russian, Tajik, Turkish, Urdu, and Uzbek.

Before beginning the Fulbright Full grant, critical language enhancement awardees will study the language full-time for up to six (6) months in either the host country of the Fulbright Full grant project or another appropriate country. The requirements of the enhancement awards include pre- and post-testing of the prospective awardees knowledge of the language, as well as a clearly defined commitment to continuing study in the language after the six-month training period, i.e., during their Fulbright Full grant period and beyond. This can be in formal course work, tutoring, or structured independent study.

Applicants must be prepared, if selected, to begin language training abroad as early as June. While students may suggest their own language training programs, final approval – and possible reassignment – will be the responsibility of the Fulbright Commission or U.S. Embassy in the receiving country. In the Language Background Report (Form 8A), you may describe in more detail the institution in which you would like to pursue language study.

#### Requirements

- All candidates must already have the minimum level of language capability to carry out their Fulbright Full grant projects, or to be able to do so following their period of concentrated language study. Candidates should convincingly demonstrate how language study will enhance their ability to carry out their primary Fulbright research project.
  
- The minimum length of the Critical Language Enhancement Award is three (3) months in the host country or country where the language is spoken. The maximum length is six months.
  
- In selecting a country and language of interest, it is important to note that the language of study is of more relevance than the venue of the Fulbright Full grant. For example, if a student's Fulbright project involves working with the Turkish community in Germany and Turkish language ability is needed, that student will be eligible to apply for a Critical Language Enhancement Award.

#### Application Procedures/Deadlines

Anyone applying for a Fulbright Award to a county where a critical language is spoken ought to consider the Critical Language Enhancement Award. The application and process are the same as for the Fulbright Full Award. One must receive a Fulbright U.S. student award in order to be considered for a Critical Language Enhancement Award.

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## **FULBRIGHT TEACHING ASSISTANTSHIP GRANTS**

English Teaching Assistantships are offered in many countries worldwide. Each ETA Program is designed by the host country and individual elements may vary by country.

In most cases, ETAs:

- Are placed in schools or universities outside of capital cities.
- Are assigned various activities designed to improve their students' language abilities and knowledge of the United States
- Are fully integrated into the host community, increasing their own language skills and knowledge of the host country.
- May pursue individual study/research plans in addition to ETA responsibilities.

Applicants for English Teaching Assistantships can apply to only one country. Multi-country ETA projects will not be considered.

The Fulbright ETA program has grown rapidly over the last two years. See the website for participating countries and for more information: [http://us.fulbrightonline.org/thinking\\_teaching.html](http://us.fulbrightonline.org/thinking_teaching.html).

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## **GATES CAMBRIDGE SCHOLARSHIP**

### Overview

The Gates Cambridge Trust offers about 95 Gates Cambridge Scholarships to students from every country other than the United Kingdom who are committed to serve their communities and who gain admission to the University of Cambridge. Students can study almost any subject at Cambridge. There are approximately 800-1000 applications from U.S. citizens each year, from which about 85 students are interviewed, and 35 of those are offered scholarships. Of the 8,000-10,000 international applications, 90 are interviewed and 55 scholarships are awarded. Applicants may earn a second Bachelor's degree, do a one-year postgraduate course, or engage in research leading to a Ph.D. One to three years of funding are available.

### Requirements

Applicants for graduate study should:

- hold, or expect to be able to obtain before October of the year the applicant wishes to begin their studies at Cambridge, a first class or exceptionally high second-class honors degree or its equivalent from a recognized University
- gain admission to the University of Cambridge and to a constituent College in due course
- be able to meet the conditions set by the University for admission, i.e., academic qualifications, evidence of proficiency in the English language, etc.
- normally be under the age of 30

### Application Procedures/Deadlines

Applicants apply simultaneously for admission to a graduate program at the University of Cambridge and a Gates Scholarship by the October deadline:

<http://www.admin.cam.ac.uk/students/gradadmissions/prospec/>. American citizens should apply through the U.S. Gates Committee. The deadline for US citizens is usually mid-October, and the deadline for non-US citizens is usually early December. Visit the website at <https://www.gatescambridge.org/> for additional procedures.

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## **GENERATION GOOGLE SCHOLARSHIP**

**Europe, Middle East, and Africa**

**Asia Pacific**

### Overview

Formerly the Google Women Techmakers Scholarship and Google Anita Borg Memorial Fellowship, Generation Google Scholarship is for women in computer science. Dr. Anita Borg devoted her adult life to revolutionizing the way we think about technology and dismantling barriers that keep women and minorities from entering computing and technology fields. In her honor, Google hopes to encourage women to excel in computing and technology and become active role models and leaders in the field.

Generation Google Scholarship winners from Europe, Middle East and Africa will each receive a 7,000 EUR award for the academic year. Winners from Asia Pacific countries will receive \$1,000 USD for the school year. A group of female undergraduate and graduate students will be chosen from the applicant pool, and scholarships will be awarded based on the strength of each candidate's academic background and demonstrated leadership.

### Requirements

Applicants must satisfy all of the following criteria to be eligible:

- be a female student entering her senior year of undergraduate study or be enrolled in a graduate program in a University in the United States;
- be enrolled in Computer Science or Computer Engineering program, or a closely related technical field as a full-time student;
- maintain a strong academic record
- exemplify leadership and demonstrate passion for increasing the involvement of women in computer science

Citizens, permanent residents, and international students are eligible to apply. Past applicants and finalists are also encouraged to re-apply. If you have any questions, please email [generationgoogle-apac@google.com](mailto:generationgoogle-apac@google.com).

Please visit the Google Scholarships Homepage to learn more about our scholarship opportunities for students around the world.

### Application Procedures/Deadlines

There is an online application. You will also be asked to submit electronic versions of your resume, essay responses, transcripts, and name and email of your referrers. Please scan your transcripts and enrollment confirmation into electronic format (PDF format preferred for all requested documents). The deadline is usually in December. For more info, visit <https://buildyourfuture.withgoogle.com/scholarships/generation-google-scholarship-emea/>.

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## **MARSHALL SCHOLARSHIP**

### Overview

The Marshall Scholarship offers three different options to study in the UK: a one-year program, a two-year program or a two-year program with the option of a third year extension. The Marshall Scholarships were created by the British Parliament to commemorate the ideals behind the Marshall Plan that provided much needed aid to Britain after World War II. The British Government funds the scholarships.

About 1,000 applicants compete yearly for these awards, of which about 150 are interviewed, and 30-35 are receive the scholarship. Recipients have high academic capability and distinction of intellect. The amount of the scholarship varies a bit depending on the fees of the institution at which the scholar is studying. This fellowship covers tuition, provides a comfortable living allowance, a book grant, thesis preparation costs, and provides approved travel connected to the scholar's study. A spousal allowance is also available under certain circumstances. Travel to and from Britain from the scholar's home is also covered.

### Requirements

Applicants must have at least an A-minus grade point average (3.7+ on a 4.0 scale). Applicants must be U.S. citizens and there is no age restriction on the Marshall Scholarships but you must have graduated from your first undergraduate degree after April 2014. Applicants may be married. Applicants must have a BA or BS degree by the time they take up their studies.

Before completing the application, candidates are advised to consider the objectives of the Marshall Scholarship Programme (see opening paragraph of the Rules for Candidates) and to be aware that the selection committees are seeking candidates who have the potential to excel as scholars, leaders and as contributors to improved UK-US understanding.

### Application Procedures/Deadlines

*Students must submit the application to the FASA Office by the campus deadline in September.*

Applicants can only apply to one of the options. They need to complete an application that includes a statement of their academic interests and pursuits and a proposed plan of academic study. The plan of study must be well thought out, relate to the candidate's future goals, and be well researched. While students are not required to continue study in their undergraduate major, they must be well prepared in the field in which they would like to study. Students have to possess the qualifications to gain entrance into a degree program in this field. Second, they will need to be able to articulate their interest with depth in their essay and in an interview if they make it to the next stage of the competition. Students should take the time to thoroughly research the faculty, courses, and requirements connected with their proposed plan of study. The Marshall Selection Committees are known to carefully inquire into the plan of study.

The Marshall requires each university to determine if a student will be given a university endorsement before any materials are submitted to the regional centers. The deadline for the submission of all endorsed applicants to the regional centers falls on approximated Oct. 1. This creates a very tight schedule for the Caltech Fellowships Committee and applicants are highly encouraged to work hard on their essays and researching study options over the summer. It is impossible to produce at the last minute the quality of application that will earn an interview at a regional center.

Students must apply from one of eight regions: Atlanta, Boston, Chicago, Houston, Los Angeles, New York, San Francisco, or Washington, DC. Applicants may apply from the region of their permanent residence or from the region of their college. The list of the regions by state can be obtained from our office. Applicants are screened and selected applicants are called in for an interview during November. Travel costs to and from the interview are paid and include airfare and overnight accommodation. U.S. citizens residing abroad must pay their own travel costs.

Scholarships are awarded for a specific course of study at a specific university. Applicants will have previously specified their course of study, a first and second choice of university, and, where applicable, a specific college within a university, e.g., Oxford or Cambridge. Note that applicants who wish to study at Oxford, Cambridge, or the University of London may not list either of the remaining two schools as their second-choice schools.

You can learn more about the Marshall on the web at [www.marshallscholarship.org](http://www.marshallscholarship.org).

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## **GEORGE J. MITCHELL SCHOLARSHIP**

### **US-Ireland Alliance Scholarship**

#### Overview

Named in honor of the former Senator's pivotal contribution to the Northern Ireland peace process, these scholarships will allow American post-graduates to pursue one year of study at institutions of higher learning in Ireland and Northern Ireland.

The scholarships are awarded to students who have demonstrated both academic distinction and the potential for leadership. There are no restrictions as to academic field of study. Twelve awards are normally made each year and provide tuition, housing, a living expenses stipend and international travel.

#### Requirements

Applicants must be U.S. citizens, aged eighteen or over but not yet thirty on October 1 in the year of application. They must also have academic standing sufficient to assure completion of a Bachelor's degree before they begin study under the Mitchell Scholarship. Those interested in applying are advised to begin preparing their applications well in advance of the September campus deadline. The Scholarships are awarded to students who have demonstrated both academic distinction and the potential for leadership. There are no restrictions as to academic field of study.

#### Application Procedures/Deadlines

*Students must submit the application to the FASA Office by the campus deadline in September.*

Applicants are required to secure the formal endorsement of their university or college representative, Lauren Stolper, Director of Fellowships and Study Abroad. An academic transcript, a photocopy of the birth certificate and a thousand-word essay in which applicants set out in their own words their interest and aspirations, and detailed reasons for wishing to study the specific areas of proposed academic work is required.

In addition, applicants are asked to supply a brief description of their activities during their college years. Applicants are required to provide 4 letters of recommendation. These must be persons under whom the applicant has done academic work at Caltech. Those who provide references are asked to measure the applicant against the full range of the Mitchell Scholarship criteria and not to speak solely to those attributes that would, for example, be relevant to the evaluation of a student's acceptability to a program of study. The campus deadline is usually early September. At least 3 letters of reference must be submitted with your application on the campus deadline to Lauren Stolper. Information on the program as well as the online application can be found at [www.us-irelandalliance.org/scholarships.html](http://www.us-irelandalliance.org/scholarships.html).

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## **NATIONAL INSTITUTE OF HEALTH (NIH) OXFORD/CAMBRIDGE SCHOLARS PROGRAM**

### Overview

The National Institutes of Health-University of Oxford Scholars in Biomedical Sciences interdisciplinary program is specially devoted to the training of outstanding students in various areas of biomedical research leading to a Doctor of Philosophy degree awarded by the University of Oxford in the United Kingdom. Being a collaborative program between the NIH laboratories and University of Oxford, students are provided with the opportunity to work at both institutions. Student research projects will be co-mentored by a research investigator at NIH and a faculty member at University of Oxford who work together on a collaborative project in which students carry out research. It is envisioned that students will spend roughly half of their time at Oxford and half their time at NIH, though the specific division of time will be dictated by the nature of the research.

The National Institutes of Health-University of Cambridge Health Science Scholars Program is a special interdisciplinary program committed to scholarship in the training of exceptional students in various areas of basic biomedical research or clinical research leading to a Doctor of Philosophy degree awarded by the University of Cambridge in the United Kingdom. Being a collaborative program between the NIH laboratories and University of Cambridge, students carry out research at both institutions. Students will have the opportunity to be co-mentored by outstanding research investigators at NIH and at the University of Cambridge who work together on a collaborative project that can fall into any area of biomedical research. It is envisioned that students will spend roughly half of their time at Cambridge and half their time at NIH, though the specific division of time will be dictated by the research project.

The NIH also funds students who wish to pursue an MD/PhD degree as part of the NIH/Oxford/Cambridge Scholars Program. Students can attend one of the participating medical schools affiliated with the NIH's Medical Scientist Research Training Program, and should visit their website below for the complete list.

### Requirements

Applicants for admission into the partnerships for prospective PhD students must be US citizens or U.S. permanent residents. Applicants must also have an undergraduate degree by the time of admission. Certain partnerships may have additional degree requirements such as the NCI – Molecular Pathology and NINR – Nursing & Biobehavioral Research partnerships.

### Application Procedures/Deadlines

The application deadline is usually in early December. To apply online visit the following web address: <http://oxcam.gpp.nih.gov/>.

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## RHODES SCHOLARSHIP

### Overview

The Rhodes may be the best known of all the fellowships as many of its scholars have pursued careers in public life. Indeed, the Rhodes Selection Committee looks for individuals who have leadership ability and will have a major impact on some area of society.

Rhodes Scholarships are available to American citizens, Canadian citizens and citizens from other Commonwealth countries. Certain U.S. permanent residents may be eligible if they meet the Rhodes residency requirements (see Rhodes website or specifics). Thirty-two American Rhodes Scholarships are awarded annually. Seventy-one are awarded to Canadians and citizens of other Commonwealth countries. Over one thousand individuals apply each year for the thirty-two American Rhodes Scholarships. Rhodes applicants can only apply in one country.

Rhodes Scholars study for one or two and, with special permission, three years at Oxford University in Britain. Most students do one two-year degree program or two one-year degree programs. Study can be in any field and must lead to a degree. Study can be at the graduate or undergraduate level. Some Rhodes Scholars study the last two years of an undergraduate major. Others do graduate study. The Rhodes pays for tuition, fees, travel to and from home to Oxford, and an allowance that is sufficient to pay living costs during the academic year and vacation periods.

### Requirements

The Rhodes Selection Committee looks for individuals who have leadership ability, community service, and who will have a major impact on some area of society. Intellectual ability is required and winners usually have a 3.9 (on 4.0 scale) or above G.P.A. A genuine interest and regular participation in some type of sport or regular physical activity is required. Rhodes winners are no longer the perfect all-around leader/scholar/athlete. However, applicants should have invested themselves in leadership activities, should be physically active, and should have demonstrated their intellectual ability through coursework and related academic activities. It is also helpful to be articulate and have a quick wit.

All applicants must be at least 18 and not over 24 years old by October 1 of the year of application, and can be married or single. Scholars must have received a bachelor's degree by the time they begin their studies at Oxford.

### Application Procedures/Deadlines

*Students must submit the application to the FASA Office by the campus deadline.*

Applicants apply for a Rhodes from one of eight regional districts. Each of these districts comprises four to eight states depending on population. Applicants first apply to the state selection committee in which they attend school or in which they have their permanent residence.

There are two levels in the Rhodes application process:

**University Level - Applicants must obtain an endorsement from their college.** The Rhodes has an early fall application deadline and the Caltech Fellowships Committee holds endorsement interviews usually during the last week of September or first week of October. Applicants should contact Lauren Stolper prior to leaving school in the spring of their junior year or during the summer. Applicants can receive endorsement in the fall of their senior year, but it cannot be stressed enough that the Rhodes application process is complex. Serious applicants should work on the Rhodes application over the summer and not wait until September to begin. In fact, it is impossible to produce the quality of application necessary to obtain a state level interview without a great deal of hard work.



**District Level** – Applicants apply from the state of their residency or the state in which they attend college – Caltech is in District 16. There are 16 districts and each has approximately the same number of applicants. Each Committee selects four of their applicants as one of the thirty-two Rhodes Scholars-elect.

**The Rhodes application requires five to eight letters of recommendation, a transcript, and a 1,000-word compelling essay about the applicant.** The personal essay is the key to the Rhodes process. This should be written in a clear, direct style and should discuss the applicant's major accomplishments, the applicant's interests, and important influences or turning points in the applicant's life. The essay should also include a proposed course of study at Oxford.

As of 2014, the Rhodes Trust has issued a new policy on personal statements that states that applicants cannot have their essays reviewed by advisors, previous Rhodes scholars, professors, or anyone else. Applicants must sign the attestation as follows: *“I attest that this personal statement is my own work and is wholly truthful. Neither it nor any earlier draft has been edited by anyone other than me, nor has anyone else reviewed it to provide me with suggestions to improve it. I understand that any such editing or review would disqualify my application.”*

The course of study must be well researched and can be at the undergraduate or graduate level and must be related to a student's undergraduate coursework. Do not make the essay into a list of awards or try to create an entirely new worldview. A major mistake in the essay is to make statements that are based on assumption and or hearsay. Be sure to have your essay reviewed by the fellowships advising director and faculty that have a background in your field or the field you intend to study at Oxford. The Rhodes web site is located at [www.rhodesscholar.org](http://www.rhodesscholar.org).

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## SCHWARZMAN SCHOLARSHIP

### Overview

The Schwarzman Scholars Program offers students the opportunity to develop their leadership skills and professional networks through a one-year Master's Degree in public policy, economics and business, or international studies at Tsinghua University in Beijing.

### Requirements

Students can apply as seniors or after graduation as long as they are under 29 years old. While there is no GPA requirement, applicants should have very strong academic records. There is no citizenship requirement.

### Application Procedures/Deadlines

Applicants complete the online application and prepare and a three-part essay that includes a statement of purpose and leadership essay. The essay gives the applicants an opportunity to describe their professional interests and goals and how the Schwarzman Scholars Program and a deeper knowledge of China's role in the world will help them advance these goals. Applicants should give specific examples in the essay of situations where they have demonstrated leadership by taking initiative, working well with a team, and overcoming obstacles to achieve their goals.

Applicants must also have three letters of recommendation and can choose a combination of professors, supervisors, mentors or advisors to write these letters. While applicants will no longer require an institutional letter from the fellowship office or other central administrative office, recommendations from any faculty member, advisor, or administrator who knows the candidate well enough to write a letter are welcomed. Recommendation writers should know the applicant well and be able to speak to their intellectual abilities, personal characteristics and/or leadership potential.



Submission of a video is strongly recommended but not required. The deadline is in mid-September. Semi-finalists receive interviews, and winners are notified in November. For more information, visit: <http://schwarzmanscholars.org/>.

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## **THOMAS J. WATSON FELLOWSHIP**

### Overview

The Watson Fellowship provides graduating seniors of unusual promise the opportunity to engage in a year of independent study and travel abroad after graduation. Candidates must devise their own study program. This independent study program should provide substantial contact with another culture or cultures. This year should not involve extended foreign study at a university. Rather, the applicant's proposal should be one that fosters independence and be of personal significance. Unmarried fellows receive \$30,000 and married fellows receive \$40,000 for the year.

### Requirements

Applicants may be U.S. citizens, permanent residents, or foreign nationals. Applicants must be graduating seniors attending one of the approximately forty colleges whose students may apply for a Watson, including Caltech. Applicants may be single or married. No specific grade point, language skill, or major is required. However, applicants must be able to develop a creative, interesting, and feasible proposal for a year of independent study and travel. Each year, about 40 students are selected nationally as Watson Fellows.

### Application Procedures/Deadlines

*Students must submit the application to the FASA Office by the campus deadline in May of their junior year.*

Applicants apply by the campus deadline, usually in the spring of their junior year. Students must submit a personal statement and proposal that support the independent 12-month project. Letters of recommendation and extracurricular activities should demonstrate initiative, accomplishment and commitment to the applicant's area of interest. Caltech interviews the most promising applicants and nominates up to three individuals to the Watson Foundation for submission at the national deadline in November. A representative of the Watson Foundation interviews the nominees on campus. The Watson Foundation announces the names of fellows in mid-March. Previous winners' essays are available for review in the FASA Library. Students interested in applying for the Watson must meet with FASA to discuss their project and proposal. A successful proposal takes months to prepare, so juniors should begin their applications towards the beginning of their winter term, if not before. More fellowship information is available in the FASA office, and the official Watson web site: <https://watson.foundation/fellowships/tj>.

## **CAPITAL FELLOWS PROGRAM**

### Overview

The Capital Fellows Program is unique to the state of California. Fellows work as staff members in the California State Assembly, Senate, Executive or Judicial branch for 10-11 months. They are paid a monthly stipend (about \$2000) and receive full health benefits. This is a great opportunity to participate in public service, policymaking and development. There are several programs offered:

- California Senate Fellows
- Executive Fellowship Program
- Jesse M. Unruh Assembly Fellowship Program
- Judicial Administration Fellowship Program

### Requirements

Applicants must have a bachelor's degree in any field and have a demonstrated interest in policy making and public service. Graduate, post-graduate and mid-career applications are accepted. Non-U.S. citizens must provide proof of appropriate immigration status. The Capital Fellows Programs do not meet the requirements for F-1 or J-1 visas.

### Application Procedures/Deadlines

Applicants can apply to more than one of the programs. The deadline is a postmark deadline usually in February. Fellows are selected in the spring and start their programs in the fall with an intensive orientation. For more information, visit <https://www.csus.edu/center/center-california-studies/capital-fellows.html>.

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## **HERBERT SCOVILLE JR. PEACE FELLOWSHIP**

### Overview

The Herbert Scoville Jr. Peace Fellowship, established in 1987, is a highly-competitive national fellowship program that provides college graduates with the opportunity to gain a Washington perspective on key issues of peace and security. Fellows spend 6-9 months working directly with organizations in Washington DC such as: Global Green USA, Physicians for Social Responsibility, Federation of American Scientists, Union of Concerned Scientists. Fellows are provided with a \$3200 monthly stipend plus health insurance. Some of the issues covered by the Scoville Fellowship are: Environmental and Energy Security, including the Nexus of Climate Change and Energy Use, Conflict, and Resource Scarcity, Dismantling Chemical and Nuclear Weapons in the former Soviet Union, and Environmental Impact/Cleanup of Nuclear Weapons Production Complex.

### Requirements

Students must have an undergraduate degree before beginning their fellowships and a demonstrated interest in peace and security issues. Students should be good writers and comfortable with a fast-paced environment.

### Application Process/Deadlines

The fellowship is offered in the spring and fall of each year. The deadline for the fall program is in January, and the deadline for the Spring program is in October. Students must submit via email a cover sheet, personal essay, CV, policy/opinion essay, transcripts, and two letters of reference. For full details and requirements, please visit: <http://scoville.org/>.

## **SAN FRANCISCO FELLOWS PROGRAM**

### Overview

The primary initiative of the City Hall Fellows is a 12-month-long, post-college, pre-graduate school Fellowship program that integrates hands-on, full-time work as city employees. These positions provide intensive, comprehensive, real-politic-focused training in how cities work and the people, issues and organizations that influence local policy. Fellows spend their service year working on high-need, high-impact municipal initiatives.

Fellows work on projects during the program that have a direct impact on City operations. They span a broad range of City functions, involving analytical, planning, and operational work in the Arts Commission, Public Utilities Commission, Recreation and Park, Airport, Municipal Transportation Agency, Controller, Public Works, and other City agencies. In addition to hands-on work experience and comprehensive professional development, Fellows will be paired with experienced mentors in City government. Over 90 Fellows have participated in the San Francisco Fellows program predecessor, City Hall Fellows, which partnered with the City from 2008 through 2015.

### Requirements

There is no citizenship requirement for this program, however the program does not sponsor visas. Students must have earned a bachelor's degree by the start of the program, and graduate students are eligible to apply as long as they have earned their bachelor's degree within the last three years. Applicants from all majors and academic disciplines will be considered and are encouraged to apply. Fellows are expected to possess the following characteristics: (i) academic achievement, (ii) written and oral communication skills, (iii) leadership potential and ability, (iv) dedication to public service; and (v) an entrepreneurial spirit appropriate for participating in our growing program. While there is no GPA cut-off, the Fellowship is highly competitive. Additionally, preference is given to applicants who can demonstrate a strong connection to the city for which they are applying.

### Application Procedures/Deadlines

San Francisco Fellows has a two-stage application process: a written application submitted online followed by in-person finalist interviews. Select applicants are invited to participate in half-day in-person interviews in the city they applied to. Deadlines and key dates for each application cycle will be posted when that cycle opens. For more information, visit: <http://sffellows.sfgov.org/>

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## *Science Teaching Fellowships – Teaching in Secondary Schools*

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### **KNOWLES SCIENCE TEACHING FELLOWSHIP**

#### Overview

The Janet H. and C. Harry Knowles Foundation was established in 1999 to strengthen the quality of science and mathematics teachers in grades 9-12 in United States schools. The Knowles Science Teaching Foundation supports individuals and programs designed to encourage and sustain young scientists and mathematicians as they dedicate their lives to teaching other young people and to becoming leaders in the field of education. The Foundation also supports efforts that provide insight into how to best prepare high school science and mathematics teachers.

The Knowles established the foundation in recognition of the importance of quality science and mathematics instruction to the well-being and future of our country as well as in appreciation of the many dedicated science and mathematics teachers that helped shape their lives.

In addition, KSFT is recruiting for the new Biological Science Teaching Fellowships, which began in June 2010. Applicants should have a comprehensive understanding of contemporary biology such as systems, computational or model-based biology.

#### Requirements

Those Knowles Science Teaching Fellows who are applying to become members of 2015 cohort will be selected from among young men and women who have earned or are in the process of earning a degree in one of the physical sciences such as physics, chemistry, astronomy, geology, engineering and/or mathematics from a recognized institution of higher education.

Fellows should have received their most recent degree within the past five years. Also an applicant might be in the final year of an undergraduate, master's, combined B.S. with M.A.T or M.Ed. program or near the completion of their doctoral program. Applicants who will be in their first year of teaching in the next academic year are also eligible. If you are not sure if you are eligible, please read the selection criteria and then contact the fellowship at [info@kstf.org](mailto:info@kstf.org) with any additional questions.

The application for a Knowles Science Teaching Fellowship does not depend on having been admitted to an education program that leads to a science or mathematics teaching license. However, the award of the fellowship does require the fellow to have been admitted to such a program.

#### Application Procedures/Deadlines

The timeline for selection of the Knowles Science and Mathematics Teaching Fellows is as follows:

- Applications are due in November and are only submitted online.
- Semi-finalists will be contacted and invited to participate in preliminary telephone interviews in January.
- Finalists will be notified and invited for an interview in Philadelphia, PA, in March.
- Fellowship awards will be announced in March.

For more information, go to [www.kstf.org](http://www.kstf.org).

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### **NYC TEACHING FELLOWS**

#### Overview

The New York City Teaching Fellows Program offers fellows the opportunity to work in the classroom while obtaining a master's degree in education. Fellows receive extensive training in the summer before, and then apply for placement at a NYC high-need school. While teaching, they attend night and summer

classes at one of the participating universities. Students earn the same as other NYC public school teachers, and their salaries usually start at about \$50,000. The master's degree tuition is partially funded by the program.

### Requirements

Applicants must have a bachelor's degree by the start of the program, a 3.0 GPA, and be a US citizen.

### Application Procedures/Deadlines

Students submit an online application form, resume, and two essays. A selection of students will be interviewed in New York City. Applications are usually due March, and winners are notified in late spring. For more information, please visit: <https://www.nycteachingfellows.org/>.

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## **ROBERT NOYCE TEACHING SCHOLARSHIP**

### Overview

The Robert Noyce Teacher Scholarship Program, funded by the National Science Foundation, responds to the critical need for K-12 teachers of science, technology, engineering, and mathematics (STEM) by encouraging talented STEM students and professionals to pursue teaching careers in elementary and secondary schools.

The program provides funding to institutions of higher education to provide scholarships, stipends, and programmatic support to recruit and prepare STEM majors and professionals to become K-12 teachers. Scholarship and stipend recipients are required to complete two years of teaching in a high-need school district for each year of support.

The program is university-specific, but many universities do offer the scholarship, including Tufts University outside of Boston, MA. Students first apply for admission to the specific program, and then proceed with the fellowship application.

For general information on the Robert Noyce Teaching Scholarship and a list of programs by state, visit: <http://nsfnoyce.org>.

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## **WOODROW WILSON TEACHING FELLOWSHIP**

### Overview

The Woodrow Wilson Teaching Fellowship seeks to attract talented, committed individuals with backgrounds in the STEM fields—science, technology, engineering, and mathematics—into teaching in high-need secondary schools in Georgia, Indiana, and New Jersey. Eligible applicants include current undergraduates, recent college graduates, midcareer professionals, and retirees who have majored in, or had careers in, STEM fields.

As part of their commitment to ensuring the success of students in high-need secondary schools, Fellows teach for at least three years in an urban or rural school district. Continuation as a teacher of record is contingent on the Fellow's completing the master's degree and obtaining appropriate teaching licensure. Students receive a \$30-\$32,000 stipend in addition to admission to a master's degree program at a participating university.

### Requirements

Applications must be US citizens or permanent residents, have a bachelor's degree in a STEM field and have at least a 3.0 GPA on a 4.0 scale.

### Application Procedures/Deadlines

Students complete an online application that includes basin information as well as two 500-word essays. Supporting documents include a transcript, resume, and three letters of reference. Finalists will be interviewed and asked to prepare a sample teaching lesson and writing sample. There are 15 scholarships awarded annually. There is an early decision deadline, usually in early October, and a regular application deadline in early December. For more information, please visit: <http://www.wvteachingfellowship.org/>.

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## **ADDITIONAL INFORMATION REGARDING ALL FELLOWSHIPS**

Applying to Universities: Almost all of the fellowships described above require that applicants gain admission to universities of choice or assignment on their own. The Rhodes and Marshall are exceptions. However, it is essential even with these two awards to have made contact with your first-choice university and the specific department in which you wish to study. The Fellowships Advising and Study Abroad Office can advise you on how to contact universities abroad. Note that we have an extensive collection of foreign university catalogs that we update yearly. Also, most universities in the U.S. and abroad have a web page.

It is strongly suggested that you make an appointment with the fellowships advising director to discuss ways to best research your interests. Start early to investigate your options. Applying to universities abroad is a complex process. Books giving a general overview of fellowships, as well as specific programs, are available in the Fellowships Advising & Study Abroad Library. In addition, catalogs from foreign universities, as well as books supplying the names and addresses of foreign universities, are available for review.

International Students: International Students may apply for the Gates, Watson, de Karman, and the Rhodes if a Rhodes is available in their country of citizenship, e.g. Canada and Singapore. For the Fulbright, applicants will need to contact their own embassy or consulate for procedures. The other awards described above are open only to U.S. citizens, U.S. nationals, or where noted permanent residents. For general assistance with funds for graduate study at Caltech, students should contact the Graduate Office. For study elsewhere, contact each university's financial aid or admissions office to inquire about their policy of funding international students. There are usually special awards available for students from Commonwealth countries who choose to study in another Commonwealth country.

General Advice on Fellowships and Application Assistance: Lauren Stolper, Director of Fellowships Advising and Study Abroad, is available to meet with you to discuss fellowship options and the application process. She is happy to review essay drafts or offer advice on interview strategies for those applying to fellowships that require one or more interviews.

**Each spring and fall there are information sessions for several large fellowships that students are encouraged to attend. Announcements will be sent out to the directory.**

Alternatives: For those who are interested in some other type of experience abroad, the director is available to discuss work abroad and study abroad options.

Obtaining Applications: Unless noted, applications on all awards described in this booklet can be obtained online.

The Fellowships Advising and Study Abroad Office is open from 8am-5pm, Monday through Friday. It is closed for lunch from 12noon-1pm. Advising walk-in hours are Tuesdays from 9-11am and 2-4pm and Thursdays from 10-11am and 1-4pm. For all other times, please call or email to make an appointment for advising. Advisors will review fellowship essays for content and to ensure that applicants have met the criteria of the fellowship application (this does not include proofreading). The FASA Office has a selection of example essays from previous winners of various fellowships that students can refer to (e.g. NSF, Watson). To take full advantage of essay review, students should come for a review at least one week before the deadline to allow time to make suggested changes.

**Fellowships Advising and Study Abroad**  
Center for Student Services, 3<sup>rd</sup> Floor, Room 319  
626.395.2150  
<http://fasa.caltech.edu>